



2019 Northern California Earthquake Hazards Workshop
May 1–2, 2019
USGS, Menlo Park, California

AGENDA

Wednesday, May 1

9:00-9:15 a.m. **Welcoming Remarks**

Keith Knudsen, Northern California Earthquake Hazards Coordinator (USGS)
Sarah Minson, Workshop Overview (USGS)

The 1969 Santa Rosa earthquakes: 50th anniversary

9:15-10:50 am **Santa Rosa earthquake hazards: then and now**

Speakers:

Ivan Wong (LCI) *The 1969 Santa Rosa sequence: lessons in hazard, losses, and risk in moderate earthquakes* [20 min]

Vicki Langenheim (USGS) *What lies beneath Santa Rosa can shake you: what we have learned about basin structure since 1969* [20 min]

Suzanne Hecker (USGS) *Mapping the long-hidden trace of the Rodgers Creek Fault through central Santa Rosa using lidar topography and subsurface imaging* [20 min]

Gareth Funning (UC Riverside) *Surface and subsurface creep along the Rodgers Creek-Maacama fault zone revealed by InSAR and repeating earthquakes* [20 min]

Discussion: 15 min

Moderator: Sarah Minson (USGS)

10:50-11:15 a.m. **Break**

11:15 a.m.-12:15 p.m.

Rebuilding after natural disasters: perspectives from Santa Rosa and beyond

Speakers:

Martha Blair Tyler (previously with Spangle Associates) *Seizing opportunities after the 1969 Santa Rosa earthquakes* [20 min]

David Guhin (City of Santa Rosa Director of Planning and Economic Development) *Rebuilding and revisioning after the fires* [20 min]

Sara McBride (USGS) *Exploring community complexities for recovery after the Canterbury and Kaikoura earthquakes in New Zealand* [20 min]

Discussion: 15 min

Moderator: Suzanne Hecker (USGS)

12:15-1:45 p.m. **Lunch + Poster Session**

1:45-3:30 p.m. **Jack Boatwright's scientific legacy**

Speakers:

Paul Richards (Lamont-Doherty Earth Observatory) *The young Jack in grad school: what was important in the 1970s, and have we learned anything since?* [25 min]

Massimo Cocco, Daniela Pantosti (INGV) *Thoughts from colleagues at INGV* [25 min]

George Choy (USGS) *Jack Boatwright: Pioneer in broadband seismology and his contributions to global seismology* [25 min]

Mary Lou Zoback (Stanford University) *Shaky times: Jack Boatwright's contributions and legacy at the USGS* [25 min]

Moderator: Pat McCrory (USGS) and Keith Knudsen (USGS)

3:30-4:30 p.m. **Personal remembrances of Jack**

Moderator: Pat McCrory (USGS) and Keith Knudsen (USGS)

4:30 p.m. Reception honoring the life of Jack Boatwright

Thursday, May 2

9:00-11:00 a.m. **Creeping faults and their hazards**

Speaker:

Ruth Harris (USGS) *Large earthquakes and creeping faults* [25 min]

Ben Brooks (USGS) *The importance of seeing shallow: near-field geodesy, shallow fault slip and creeping faults* [25 min]

Morgan Page (USGS) *How creep is handled in UCERF3* [25 min]

Kaj Johnson (Indiana University) *Mechanisms of steady and non-steady creep on the central San Andreas fault* [25 min]

Discussion: 20 min

Moderator: David Schwartz (USGS)

11-12:00 p.m. *Lightning Talks: Everything You Want to Know About Current Earthquake Research in Northern California in Less than an Hour!* **Brad Aagaard** (USGS), **Annemarie Baltay** (USGS), **Michael Barall** (*Invisible Software*), **Kim Blisniuk** (SJSU), **Tom Brocher** (USGS), **Dave Croker** (USGS), **Collin Cronkite-Ratcliff** (USGS), **Francisco Galvis** (Stanford), **Yann Gavillot** (OSU), **Chris Goldfinger** (OSU), **Jeanne Hardebeck** (USGS), **Christopher Hitchcock** (Infraterra), **Don Hoirup** (CA Dept. of Water Resources), **Shannon Klotsko** (SDSU), **Keith Knudsen** (USGS), **Kathryn Materna** (UC Berkeley), **Chris Milliner** (JPL, NASA), **Nicholas Novoa** (CA Dept. of Water Resources), **Arben Pitarka** (LLNL), **Yogesh Prashar** (EBMUD), **Arthur Rodgers** (LLNL), **Alianora Walker** (SJSU), **Charles Wang** (UC Berkeley), **Patrick Williams** (Williams Associates)

Moderator: Sarah Minson (USGS) [1 slide and 3 min per speaker]

12:00-1:30 p.m. **Lunch + Poster Session**

1:30-3:30 p.m. **Other hot topics**

Speaker:

Mostafa Mousavi (Stanford) *Deep learning of earthquake signals* [25 min]

Zhongwen Zhan (Caltech) *Fiber seismology: a new way to build dense seismic networks* [25 min]

Danielle Hutchings Mieler (Office of Resilience and Capital Planning, City and County of San Francisco) *San Francisco's tall buildings study* [25 min]

Discussion: 15 min

Moderator: Brad Aagaard (USGS)

3:30 p.m. Concluding Remarks, Keith Knudsen

3:45 p.m. Adjourn

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